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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/756,884	01/14/2004	Laurent Desclos	024833-1305	3424

27433 7590 12/27/2006

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CHICAGO, IL 60610-4764

EXAMINER
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MANCUSO, HUEDUNG XUAN CAO

ART UNIT	PAPER NUMBER
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2821

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	12/27/2006	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/756,884	<b>Applicant(s)</b> DESCLOS ET AL.	
	<b>Examiner</b> Huedung Cao Mancuso	<b>Art Unit</b> 2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 05 October 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.  
4a) Of the above claim(s) 23-37 is/are withdrawn from consideration.
- 5) ☒ Claim(s) 4-6, 20-22 is/are allowed.
- 6) ☒ Claim(s) 1-3, 7-13 and 19 is/are rejected.
- 7) ☒ Claim(s) 14-18 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All   b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-3, and 7-13, and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Flint et al. (US 2002/0190905 A1).

Regarding claim 1, Flint (figure 14) teaches an antenna comprising: a first planar conductor 1401; a first elongated conductor 1301 and a second elongated conductor (feed), which are each substantially coplanar with the planar conductor; the first elongated conductor having a first end electrically connected to the first planar conductor and a second end; and the second elongated conductor, parallel to the first elongated conductor and spaced apart therefrom, having a first end electrically connected to the first planar conductor see figure 14, wherein each of the first elongated conductor and the second elongated conductor are radiating structure (figure 14, conductor 1301, and feed conductor)

Regarding claim 2, Flint teaches the first end of the first elongated conductor is electrically connected to the first planar conductor by a first connecting conductor and

Art Unit: 2821

the first end of the second elongated conductor is electrically connected to the first planar conductor by a second connecting conductor see paragraph [0018].

Regarding claim 3, Flint teaches the first connecting conductor and the second connecting conductor are perpendicular to the first elongated conductor and second elongated conductor respectively see figure 14.

Regarding claim 7, Flint teaches a substrate and wherein the first planar conductor, the first elongated conductor, and the second elongated conductor are disposed on a first side of the substrate see paragraph [0056].

Regarding claim 8, Flint teaches a substrate and wherein the first planar conductor is disposed on a first side of the substrate and the first elongated conductor and the second elongated conductor are disposed on a second side of the substrate see figure 15.

Regarding claim 9, Flint teaches a second planar conductor disposed on the second side of the substrate see figure 15.

Regarding claim 10, Flint teaches first end of the first elongated conductor and the first end of the second elongated conductor are electrically connected to the first planar conductor by vias through the substrate see figure 14.

Claims 11-13, and 19-20 are similar in scope to claims 1-3 except for the first elongated conductor and the second elongated conductor comprise a first element and further wherein the antenna comprises a second element see (figure 14, first element 703 and the feed conductor, and second element 1303); a substrate and at least one conductor along an edge of the substrate see (figure 7).

***Allowable Subject Matter***

8. Claims 14-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the Prior art fails to teach that wherein at least one of the first and second elements further comprises a third elongated conductor having a first end electrically connected to the first planar conductor; the first element and the second element are disposed adjacent to opposing edges of the substrate; the first element disposed thereon and a secondary substrate attached to the primary substrate with the second element disposed thereon.

Claims 4-6, and 20-22 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the Prior art fails to teach that a third elongated conductor space apart from the first planar conductor and electrically connected to at least one of the first end of the first elongated conductor and the first end of the second elongated conductor; a substrate and at least one conductor along an edge of the substrate; a primary substrate, a secondary substrate attached to the primary substrate and perpendicular thereto, and a third parallel elongated conductor and a fourth parallel elongated conductor on the secondary substrate, each having a first end electrically connected to the first planar conductor; the first planar conductor, the first elongated conductor, and the second

Art Unit: 2821

elongated conductors are disposed on a first side of a substrate and further comprising a second planar conductor and a third parallel elongated conductor and a fourth parallel elongated conductor each having a first end electrically connected to the second planar conductor and disposed on a second side of the substrate.

Due to a new ground of rejection this action made NON-FINAL.

***Inquiries***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huedung Mancuso whose telephone number is (571) 272-1939.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan, can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Huedung Mancuso  
Patent Examiner

Application/Control Number: 10/756,884

Page 6

Art Unit: 2821

A handwritten signature in black ink, appearing to read 'Trinh Dinh', followed by a long, horizontal, wavy line that extends to the right.

TRINH DINH  
PRIMARY EXAMINER